Actiontec® Creative Solutions for the Digital Life™

Modular DSL Router

Actiontec's Modular DSL Router is the industry's first modular DSL residential modem/router, designed to equip broadband service providers with a single-SKU solution and potential revenue stream for consumer premises equipment. It enables telcos to supply all customers with the same low-cost base unit and then add user-requested upgrades such as wireless networking with snap-in expansion modules.

Modular for Easy Feature/Technology Upgrades

The base unit is a one-port Ethernet/USB ADSL2+ modem. An expansion port is included on top of the unit for attaching the wireless expansion module. All other add-on modules snap directly into the base unit with no cables, adapters, CDs or configuration required by the end user, making upgrades a simple plug-and-play process that can be handled by the consumer. Modular add-ons include a Wireless Expansion Module, 4-port Ethernet switch for wired networking, a HomePlug AV adapter for powerline networking, and a VoIP adapter.

Features

- Integrated Wired Networking using 1 Port USB and 1 Port 10/100 Mbps Ethernet
- Full-rate ADSL 2/2+ modem - supports data rates of up to 24 Mbps downstream and up to 1 Mbps upstream*
- Exceeds performance of the DSL Forum specification
- Loop reach of up to 18,000 feet using ADSL and 18,600 feet using ADSL 2
- Tested and compatible with all major DSLAMs
- Advanced security: Firewall, Stateful Packet Inspection, NAT, website blocking, web service blocking, Internet traffic logging, Denial of Service (DOS) protection

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Product Of The Year 2007 TMC Unified Communications

* Depends on the services offered by the Internet Service Provider.

Assembled

- Other features include:
  - Advanced Modem Diagnostics
  - DHCP Server Option
  - Compliant with DSL Forum TR048 Rate and Reach Requirements
  - Customizable Firewall
  - DMZ Hosting
  - DNS Server, Relay
  - Dynamic Rate Adaptation
  - Independent upstream and downstream data rate provisioning
  - LAN IP Address Selection
  - Multiple PVC supported
  - NAT Services Blocking
  - Port Forwarding
  - Real-time diagnostics
  - Remote Management
  - Services Blocking
  - Static Routing
  - Unnumbered Mode Support
  - User Friendly GUI
  - VPN Pass Through
  - WAN IP & LAN IP Address Selection
  - Website Blocking

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Technical Specifications

Features	Descriptions
ADSL	• ITU G.992.1 (G.dmt), G.992.2 (G.Lite), G.994.1 (G.hs), G.992.3 (G.dmt.bis), G.992.4 (G.lite.bis), G.992.5 (ADSL2plus) • ANSI T1.413 Issue2
ATM	• ATM User-Network Interface, Version 3.1, Section 3. - The full VPI range (0 – 4095) and VCI range (1 – 65535) are supported. - Adaptation Layers AAL5, AAL2 and AAL0 are supported. - The traffic shaping function supports traffic classes CBR, VBR (real time and non-real time) and UBR (with PCR limiting).
OAM	• ITU-T Recommendation I.610 B-ISDN Operation and Maintenance Principles and Operations. - F5 segment and end-to-end loopback cells
Wireless Module	• IEEE 802.11g • IEEE 802.11b • IEEE 802.1x • WPA/WPA2 • WEP 64/128 bit encryption • SSID Broadcast enable/disable • WPS • WMM • Multi SSID (4) • Auto Channel Selection
VoIP Module	• 2 FXS ports for phone/fax connection • Modular/Stand-alone mode for Home/ On-the-Road use • Remote XML auto configuration • Remote auto firmware upgrade • Echo cancellation for clear calls • Major Codecs (G.711a/u-law, G.729A, G.729AB, G.726, G.723.1) • Caller-ID Type I/Type II • Call hold, call waiting, call forwarding, call transfer, 3-way conference • SIP/RTP packet TOS tagging
Ethernet	• ISO/IEC 8802-3; ANSI/IEEE standard 802.3 part 3. - IEEE 802.3x – Full Duplex capable - IEEE 802.3u – Auto negotiation • RFC 1213 "Management Information Base for Network management of TCP/IP-based internet: MIB-II". • D-I-X, "The Ethernet - A Local Area Network: Data Link Layer and Physical Layer Specifications".
Bridge	• Transparent MAC level bridge for Ethernet-like devices in conformance with the IEEE802.1d specification. • ISO/IEC 10038:1993 (E), Std 802.1D. • RFC1213 "Management Information Base for Network Management of TCP/IP-based internet: MIB-II". • RFC1493 "Definitions of Managed Objects for Bridges".
IP	• RFC 791 "Internet Protocol". • RFC 950 "Internet Standard Subnetting Procedure". • RFC 1122 "Requirements for Internet hosts – communication layers". • RFC 1191 "Path MTU discovery". • RFC 1213 "Management Information Base for Network Management of TCP/IP-based Internet". • RFC 894 "Standard for the transmission of IP datagrams over Ethernet networks".
ARP	• RFC 826 "Ethernet Address Resolution Protocol: Or converting network protocol addresses to 48.bit Ethernet address for transmission on Ethernet hardware".
ICMP	• RFC 792 "Internet Control Message Protocol".
UDP	• RFC 768 "User Datagram Protocol".
TCP	• RFC 793 "Transmission Control Protocol".
IP Router	• Support Static Route • Support unnumbered mode
RIP	• RFC 1058 "Routing Information Protocol". • RFC 1723 "RIP Version 2 - Carrying Additional Information". • RFC 2453 "RIP Version 2". • RFC 1812 "Requirements for IP Version 4 Routers". • RFC 1191 "Path MTU discovery".
DHCP Server	• RFC 2131 "Dynamic Host Configuration Protocol". • RFC 2132 "DHCP Options and BOOTP Vendor Extensions".
DHCP Client	• RFC 2131 "Dynamic Host Configuration Protocol". • RFC 2132 "DHCP Options and BOOTP Vendor Extensions". • The DHCP client supports the following minimal subset of options described in RFC2132: - Requested IP Address (requested by default; is mandatory) - Parameter Request list (subnet-mask only) - IP Address Lease time (dhcp-lease-time) - Client-identifier (dhcp-client-identifier) - Default route (routers) - DNS Proxy Server

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Technical Specifications (cont)

NAT, PAT (IP Masquerading)	• RFC2663 "IP Network Address Translator (NAT) Terminology and Considerations". • RFC3022 "Traditional IP Network Address Translator (Traditional NAT)".
NAT ALGs (Application Level Gateway) (NAT Pass Through)	• FTP (over NATP) • Gaming • Netmeeting • IPSec • PPTP
NAT advanced features	• Port Forwarding • DMZ • Service Blocking • Web site blocking • Web Activity Log
Firewall	• Stateful Firewall: multiple security levels. • Basic IDS: Stateful Packet Inspection for prevention of Denial of Service (DoS) attacks.
Universal Plug and Play (UPnP)	• Internet Gateway Device (IGD) Standardized Device Control Protocol V 1.0.
PPPoA	• RFC 2364 "PPP Over AAL5".
PPPoE	• RFC 2516 "Method for Transmitting PPP Over Ethernet (PPPoE)".
RFC1483	Supports bridged 802.3 Ethernet frames over an ATM network. • LLC encapsulation, in which an LLC/SNAP header is prepended to the (Ethernet) frame. • VC multiplexing, in which a null two byte header is prepended to the frame. Default is LLC encapsulation; VC multiplexing can be configured using console command or WEB configuration. • RFC1483 "Multiprotocol Encapsulation over ATM Adaptation Layer 5". • RFC1213 "Management Information Base for Network Management of TCP/IP-based internet: MIB-II". • RFC 2684 "Multiprotocol Encapsulation over ATM Adaptation Layer 5".
Web Server and Web Based Configuration	• RFC 1945 "Hypertext Transfer Protocol -- HTTP/1.0". • RFC 2068 "Hypertext Transfer Protocol -- HTTP/1.1". (Not full support). • RFC 2617 "HTTP Authentication: Basic and Digest Access Authentication".

Operating Range	• Indoors: Up to 13m (40 ft) @ 54 Mbps Up to 17m (55 ft) @ 18 Mbps Up to 37m (120 ft) @ 11 Mbps Up to 91m (300 ft) @ 1 Mbps • Outdoors: Up to 55m (180 ft) @ 54 Mbps Up to 122m (400 ft) @ 18 Mbps Up to 171m (560 ft) @ 11 Mbps Up to 533m (1,750 ft) @ 1 Mbps
Environmental Operating Range	• Operating Temperature: 0°-40° Celsius • Humidity: 8-95% non-condensing
Power Requirements	• Operating voltage: +12V DC +- 5% @ 600mA max

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Minimum System Requirements

- PC or Macintosh with Ethernet connection or PC with available USB port
- Microsoft Windows 98SE, Me, 2000, XP, Vista; Mac OS 9 or higher; Linux/BSD, Unix (USB: Windows 98SE, Me, 2000, XP, Vista)
- TCP/IP network protocol installed
- Internet Explorer 4.0+ or Netscape 4.0+

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